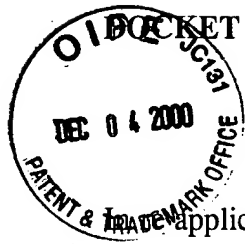


2642



BUCKET NO. CHADHA 3-3-1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application of:

MANDEEP SINGH CHADHA, et al.

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DEC 08 2000
Technology Center 2600

Serial No.: 09/650,853
Filed: August 29, 2000
For: ECHO CANCELING SYSTEM FOR A BIT PUMP
AND METHOD OF OPERATING THE SAME
Group No.: 2642
Examiner: N/A

Commissioner of Patents
and Trademarks
Washington, D. C. 20231

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on 12/01/00 (Date)
Stephanie Starnon
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Stephanie Starnon
(Signature of the person signing the certificate)
12/01/00
(Date of Signature)

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. § 1.56, Applicant submits this statement. This submittal is made in accordance with 37 C.F.R. §§ 1.97 and 1.98 and § 609 of the Manual of Patent Examining Procedure. The patents, publications and other information herein are listed below and on the attached Form PTO-1449. Copies of the listed references are submitted herewith.

mw

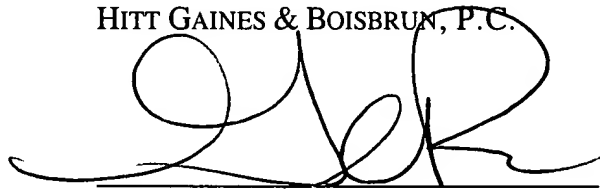
References

"Multirate Systems and Filter Banks," by P. P. Vaidyanathan,
Prentice Hall Signal Processing Series, Chap. 5, Section 5.3, pp.
211-213, July 1992

Applicant hereby expressly reserves the right to swear behind the effective dates of any of the above Patents and to question the relevance and materiality of the Patents and Publications listed herein, in whole, in part, or in combination, subsequent to filing this Information Disclosure Statement.

Respectfully submitted,

HITT GAINES & BOISBRUN, P.C.

A handwritten signature in black ink, appearing to read 'G. Boisbrun', written over a horizontal line.

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